Shortly after 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis.1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.

Within 19 months from the priority date, a demand for international preliminary examination must be filed if the applicant wishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later).

Within 20 months from the priority date, the applicant must perform the prescribed acts for entry into the national phase before all designated Offices which have not been elected in the demand or in a later election within 19 months from the priority date or could not be elected because they are not bound by Chapter II.

Name and mailing address of the International Searching Authority European Patent Office, P.B. 5818 Patentiaan 2

4. Further action(s): The applicant is reminded of the following:

NL-2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nt,

Fax: (+31-70) 340-3016

Authorized officer

Federico Bonomelli





These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

In these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international polication. Furthermore, it should be emphasized that provisional protection is available in some States only.

What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been its filed, see below.

How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new:
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]:
 Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers; claims 30, 33 and 36 unchanged; new claims 49 to 51 added.
- [Where originally there were 15 claims and after amendment of all claims there are 11]:
 "Claims 1 to 15 replaced by amended claims 1 to 11."
- [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]:
 "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
 "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- [Where various kinds of amendments are made]:
 "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Preliminary Examining Authority (see Rule 62.2(a), first sentence).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.



INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER see Notification of Transmittal of International Search Report			
2947.1008002	ACTION (Form PCT/ISA/220) as well as, where applicable, item 5 below.			
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)		
PCT/US 03/41698	31/12/2003	06/01/2003		
Applicant		I		
	·			
ELI LILLY AND COMPANY				
This International Search Report has beer according to Article 18. A copy is being tra	n prepared by this International Searching Auth	nority and is transmitted to the applicant		
,	and the the international Bureau.	ď		
This International Search Report consists				
X It is also accompanied by	a copy of each prior art document cited in this	report.		
Basis of the report				
a. With regard to the language, the i	international search was carried out on the bas	sis of the international application in the		
language in which it was filed, unit	ess otherwise indicated under this item.			
the international search water Authority (Rule 23.1(b)).	as carried out on the basis of a translation of the	ne international application furnished to this		
b. With regard to any nucleotide and	d/or amino acid sequence disclosed in the in	ternational application, the international search		
was carried out on the basis of the contained in the internation	e sequence listing : nal application in written form.			
	rnational application in computer readable form	1.		
furnished subsequently to	this Authority in written form.			
	this Authority in computer readble form.			
the statement that the sub- international application as	sequently furnished written sequence listing do s filed has been furnished.	pes not go beyond the disclosure in the		
the statement that the infor	rmation recorded in computer readable form is	identical to the written sequence listing has been		
2. X Certain claims were foun	nd unsearchable (See Box I).			
3. Unity of invention is lack	·			
	•			
4. With regard to the title ,	and the state of t	·		
the text has been establish	omitted by the applicant. ned by this Authority to read as follows:			
and tax has been establish	led by this Additional to read as follows.			
-				
5. With regard to the abstract,	smitted by the angless.			
the text is approved as sub the text has been establish within one month from the	mitted by the applicant. led, according to Rule 38.2(b), by this Authorit date of mailing of this international search repo	y as it appears in Box III. The applicant may, ort, submit comments to this Authority.		
6. The figure of the drawings to be publis	•			
as suggested by the application		None of the figures.		
because the applicant faile		•		
because this figure better c	characterizes the invention.			
				

Box III TEXT OF THE ABSTRACT (Continuation of Item 5 of the first sheet)

ERNATIONAL SEARCH REPORT

International Application No

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C07D209/08 C07D209/42 C07D405/12 C07D409/12 C07D413/12
C07D413/14 C07D417/06 C07D417/12 C07D417/14 A61K31/404
A61K31/422 A61K31/427 A61K31/4402 A61K31/4409 A61K31/5377

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7 C07D A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, CHEM ABS Data

C. DOCUM	ENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to daim No.
X	WO 02/30895 A (BAYER AG) 18 April 2002 (2002-04-18) claims 1,2,26-28,33-35,38-60; examples 220,240,241,261,273,283,284,287-299,301,34 3,344	1-140
X	WO 01/30343 A (BERGER JOEL P ; VENTRE JOHN (US); ZHANG BEI B (US); LEIBOWITZ MARK) 3 May 2001 (2001-05-03) page 6, line 16 -page 10, line 12; claims	1-140
Y	US 5 767 133 A (DOW ROBERT L ET AL) 16 June 1998 (1998-06-16) claims 1,48,49; examples 60,63,68,71,73,75,79,101,102,104,106,115,1 17	1-140

γ Patent family members are listed in annex.
 'T' later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention 'X' document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone 'Y' document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. '8' document member of the same patent family
Date of mailing of the international search report 24/05/2004
Authorized officer Hanisch, I

3

' ERNATIONAL SEARCH REPORT

International Application No T/US 03/41698

		1/03/03	0/41098	
A. CLASS IPC 7	A61P3/10 A61P29/00			
According t	o International Patent Classification (IPC) or to both national classifi	cation and IPC		
B. FIELDS	SEARCHED			
Minimum do	ocumentation searched (classification system followed by classifica	tion symbols)		
Documenta	tion searched other than minimum documentation to the extent that	such documents are included in the fields s	earched	
C): etconio el				
Electronic u	lata base consulted during the international search (name of data base)	ase and, where pradical, search terms used	1)	
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT			
Category °	Citation of document, with indication, where appropriate, of the re	elevant passages	Relevant to claim No.	
Υ	RAMI H K ET AL: "Synthetic liga PPAR gamma - review of patent li		1-140	
Ρ,Χ	1994-1999" EXPERT OPINION ON THERAPEUTIC PARASHLEY PUBLICATIONS, GB, vol. 10, no. 5, 2000, pages 623-625, page	1–140		
<u> </u>	er documents are listed in the continuation of box C.	χ Patent family members are listed in	n annex.	
° Special cate	egories of cited documents :	*T* later document published after the inter	mational filing date	
'A' document defining the general state of the lart which is not considered to be of particular relevance or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention			the application but ory underlying the	
X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone			be considered to	
which is	which is cited to establish the publication date of another citation or other special reason (see specified).			
O document referring to an oral disclosure, use, exhibition or other means cannot be considered to involve an inventive step when the document is combined with one or more other such document other means.			re other such docu-	
"P" documer later that	document published prior to the international filing date but in the art. later than the priority date claimed '&' document member of the same patent family		·	
Date of the a	ctual completion of the international search	Date of mailing of the international sear	ch report	
7	May 2004			
Name and ma	ailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2	Authorized officer		
	NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Hanisch, I		

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.1

Although claims 92-139 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.

Continuation of Box I.1

Rule 39.1(iv) PCT - Method for treatment of the human or animal body by therapy

Continuation of Box I.2

Claims Nos.: 1-42,44-87,89-139(all part)

Present claim 1 and all claims referring back to the current general formula relate to an extremely large number of possible compounds thus encompassing known general formulae (and claim 92 additionally already exemplified compounds). Besides the unlimited expressions "aryl" "heteroaryl", "aliphatic linker" etc. which among others may all be optionally substituted (see description) in particular the undefined connectivities give rise to a very large number of alternatives. Support within the meaning of Article 6 PCT and/or disclosure within the meaning of Article 5 PCT is to be found, however, for only a very small proportion of the compounds claimed. In the present case, the claims so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible. Consequently, the search has been carried out for those parts of the claims which appear to be supported and disclosed, namely those parts relating to the compounds of claims 43, 88 and 140, compositions containing the same and uses thereof, as well as the examples.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.





BOX I	Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This Inte	ernational Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. χ	Claims Nos.: — because they relate to subject matter not required to be searched by this Authority, namely:
	see FURTHER INFORMATION sheet PCT/ISA/210
2. X	Claims Nos.: 1-42,44-87,89-139(all part) because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically: see FURTHER INFORMATION sheet PCT/ISA/210
3.	Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II	Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This Inte	rnational Searching Authority found multiple inventions in this international application, as follows:
1.	As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2.	As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
,	
3.	As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4.	No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark o	The additional search fees were accompanied by the applicant's protest.
	No protest accompanied the payment of additional search fees.

TERNATIONAL SEARCH REPORT

cformation on patent family members

International Application No
/US 03/41698

					03/41098
Patent document cited in search report		Publication date		Patent family member(s)	Publication date
WO 0230895	Α	18-04-2002	AU	1190102 A	22-04-2002
		20 01 2002	CA	2427499 A1	18-04-2002
			EP	1341761 A1	10-09-2003
			HU	0302477 A2	29-12-2003
	-		NO	20031619 A	02-06-2003
			WO	0230895 A1	18-04-2002
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			EΡ	1284728 A1	26-02-2003
			JP	2003525217 T	26-08-2003
			WO	0130343 A1	03-05-2001
			US	2003032581 A1	13-02-2003
US 5767133	 A	16-06-1998	AU	675536 B2	06-02-1997
		•	ΑU	6687094 A	03-01-1995
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			NO	955047 A	13-12-1995
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			CA	2164009 A1	22-12-1994
			CN	1129443 A	21-08-1996
			CZ	9503277 A3	14-08-1996
			DK	703911 T3	06-10-1997
			ES	2104383 T3	01-10-1997
			FI	942791 A	15-12-1994
			HU	70844 A2	28-11-1995
			WO	9429290 A1	22-12-1994
			NZ	265692 A	24-02-1997
			ZA 	9404139 A	13-12-1995
WO 03074051	Α	12-09-2003	WO	03074051 A1	12-09-2003
			US	2003207915 A1	06-11-2003

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